PATENT COUPERATION TREATY

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

From the INTERNATIONAL BUREAU-LECTUAL

To:

JUN - 2 2006

ERSFELD, Dean, A. Office of Intellectual Property Counsel Post Office Box 53427 ED TO

Saint Paul, MN 55133-3427 **ETATS-UNIS D'AMERIQUE** 

RECEIVED

JUN 0 5 2006

Date of mailing (day/month/year) 26 May 2006 (26.05.2006)

Applicant's or agent's file reference 59104WO003

D.A. ERSFEL IMPORTANT NOTICE

International application No. PCT/US2004/038033 International filing date (day/month/year) 12 November 2004 (12.11.2004) Priority date (day/month/year) 14 November 2003 (14.11.2003)

Applicant

3M INNOVATIVE PROPERTIES COMPANY et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation

T. VUE JUN 0 2 2006

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yolaine Cussac

Facsimile No.+41 22 338 70 80

Facsimile No.+41 22 740 14 35

### PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 59104WO003	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2004/038033	International filing date (day/month/year) 12 November 2004 (12.11.2004)	Priority date (day/month/year) 14 November 2003 (14.11.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant 3M INNOVATIVE PROPERTIES (	COMPANY	. 1

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2.	. This REPORT consists of a total of 6 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	3. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. Π	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will conot, except where the applicant adate (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	

Date of issuance of this report 15 May 2006 (15.05.2006) Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Yolaine Cussac 1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35 Telephone No. +41 22 338 70 80 Form PCT/IB/373 (January 2004)

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om the	CAUTHORITY		
NTERNATIONAL SEARCHING AUTHORITY  To: DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPERTY COUNSEL POST OFFICE BOX 33427		WR	PCT HITTEN OPINION OF THE
SAINT PAUL, MN 55133-34	27	INTERNATIO	ONAL SEARCHING AUTHORITY
		·	(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	25 JAN 2006
Applicant's or agent's file refer	ence	FOR FURTHER	
59104WO003	Transfer at Miles date	(day by outh brown)	Priority date (day/month/year)
International application No.	International filing date		
PCT/US04/38033	12 November 2004 (12	.11.2004)	14 November 2003 (14.11.2003)
International Patent Classificati	ion (IPC) or both national classifica	mon and IrC	
	1/44 and US Cl.: 546/82; 514/293		
Applicant			
3M INNOVATIVE PROPERT	TES COMPANY		
This opinion contains indi	cations relating to the following iter	ms:	·
Box No. I E	Basis of the opinion		
Box No. II P	riority		
Box No. III N	Non-establishment of opinion with T	egard to novelty, inve	entive step and industrial applicability
Box No. IV I	ack of unity of invention		
Box No. V			
Box No. VI	Certain documents cited		
Box No. VII	Certain defects in the international a	pplication	
Box No. VIII	Certain observations on the internati	ional application	
2. FURTHER ACTION			
International Preliminary	· Evenning Anthoms: ("IPEA")	n IPEA has notified t	l be considered to be a written opinion of the s not apply where the applicant chooses an the International Bureau under Rule 66.1bis(b) dered.
IPEA a written reply togo of Form PCT/ISA/220 or	ether, where appropriate, with ame before the expiration of 22 months	ndments, before the e	IPEA, the applicant is invited to submit to the expiration of 3 months from the date of mailing a, whichever expires later.
For further options, see F			
o w . ducker litelly assume	stes to Form PCT/ISA/220.	•	

Date of completion of this opinion 13 December 2005 (13.12.2005)

Name and mailing address of the ISA/ US

Mail Stop PCT, Atm: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Form PCT/ISA/237 (cover sheet) (April 2005)

Authorized officer

Telephone No. 571-272-0700

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/38033

Box No. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of:				
the international application in the language in which it was filed				
a translation of the international application into, which is the lauguage of a translation furnished for the purposes international search (Rules 12.3(a) and 23.1(b)).				
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li></ol>				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
on paper				
in electronic form				
c. time of filing/furnishing				
contained in the international application as filed.				
filed together with the international application in electronic form.				
furnished subsequently to this Authority for the purposes of search.				
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.	ı filed in the			
4. Additional comments:				

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/38033

ox No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:			
	the entire international application		
	claims Nos. <u>13-15 and 17-38</u>		
becau	se:		
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):		
$\boxtimes$	the description, claims or drawings (indicate particular elements below) or said claims Nos. 13-15 and 17-38 are so unclear that no meaningful opinion could be formed (specify):		
	The claims are found to be unsearchable because they are improper multiple dependent claims. PCF 6		
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):		
	no international search report has been established for said claims Nos		
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:		
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.		
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.		
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).		
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.		
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
	See Supplemental Box for further details.		
	- // H 000 (1)		

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/38033

Box No. IV Lack of unity of invention			
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:  paid additional fees		
	paid additional fees under protest and, where applicable, the protest fee		
	paid additional fees under protest but the applicable protest fee was not paid		
	not paid additional fees		
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.		
3.	pay additional recs.  This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is		
İ	complied with		
	not complied with for the following reasons:		
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)		
	$\cdot$		
١			
	. Consequently, this opinion has been established in respect of the following parts of the international application:		
4	all parts.		
	the party relating to claims Nos. 1,2 in part where Ra/Rb (1) do not form ring; (2) form a 6-membered carbocyclic ring; (3)		
1	orm a 6-membered nitrogen containing ring AND claims 3-9.11		

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/38033

### Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1,2 in-part, 3-12,16	YES NO
,	Claims NONE		
		Claims 1.2 in-part, 3-12,16	YES
	Inventive step (IS)	Claims NONE	NO
		Ciamis HOND	
	Industrial applicability (IA)	Claims 1.2 in part, 3-12.16	YES
migusaraz appneasay ()	Claims NONE	No	

#### 2. Citations and explanations:

Claims 1-2 (in part where RA/RB (1) do not form ring; (2) form a 6-membered carbocyclic ring; (3) form a 6-membered nitrogen containing ring along with claims 3-12,16 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1-2 (in part where RA/RB (1) do not form ring; (2) form a 6-membered carbocyclic ring; (3) form a 6-membered nitrogen containing ring along with claims 3-12,16 the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the compounds.

See Kshirsagar et al (CA 143:26604) that teach compounds similar to those claimed. See below. However, the reference has a 2005 date which is after the instant November 14, 2003 priority date.